

SAI RAM REDDY PADURI

PYTHON DEVELOPER

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SUMMARY

- Versatile Python Developer with over 4+ years of experience and a solid background in computer science, proficient in building scalable and robust applications.
- Strong Python skills and practical knowledge of **back-end frameworks** such as **Flask and Django**
- Proficient in SQL with extensive experience in **data mining, statistical analysis, and data visualization**.
- Designed and implemented **real-time dashboards and monitoring pages using Plotly and Plotly Dash**, enabling live visual insights into system health, performance metrics, and data pipelines.
- Developed dynamic, drill-down visualizations using **Plotly Dash** embedded in Django apps, enabling stakeholders to interact with live data and make real-time operational decisions.
- Integrated the **ELK stack (Elasticsearch, Logstash, Kibana)** to build operational dashboards and centralized logging solutions for proactive monitoring and troubleshooting.
- Automated log parsing and error alerting by integrating **Logstash pipelines** with Kibana dashboards, significantly reducing response time to production issues and improving system observability.
- **Expertise in RESTful API Development** and integration, building well-documented and secure endpoints to facilitate communication across applications.
- Experienced with **AWS services**, including EC2, S3, and Lambda, to deploy and manage cloud-based applications and microservices.
- Possesses a comprehensive understanding of database management systems, including **MySQL, Oracle, MongoDB, and PostgreSQL**.
- Strong understanding of version control through **Git and GitHub**, following best practices in collaborative software development.
- Applies **Agile methodologies** to deliver high-quality analytical projects within tight deadlines.
- Dedicated to code quality through rigorous unit testing and use of **CI/CD** tools like **Jenkins, Docker, and Kubernetes** for deployment automation.
- Demonstrate strong problem-solving abilities and critical thinking skills, consistently uncovering key trends and patterns that drive strategic decision-making.

TECHNICAL SKILLS

Programming Language:	Python, SQL.
Databases:	MySQL, Oracle, MongoDB, PostgreSQL.
Libraries:	Django, Pandas, Requests.
Cloud Technologies:	AWS, Azure.
Development Tools:	Docker, Kubernetes, Jenkins
Methodologies:	Agile, Scrum.
Version Control Skills:	Git, GitHub.
Additional Skills:	RESTful API Development, Microservices, Unit Testing, Debugging, Problem-solving, Communication skills.

EDUCATION

Auburn University at Montgomery, AL Master's in Information Technology	May 2022 – Aug 2023
Ashoka Institute of Technology, India Bachelor's in Mechanical Engineering	Jul 2018 – Jun 2021
Government Polytechnic, Nalgonda, India Diploma in Mechanical Engineering	Jul 2015 – May 2018

PROFESSIONAL EXPERIENCE

ConnX Inc, NJ **Python Developer**

Nov 2024 – Current

- Architected and deployed end-to-end microservices using Django and Fast API, enabling modular and scalable communication layers for enterprise applications.
- Led the development of asynchronous API services using Python's asyncio and aiohttp, improving throughput and reducing latency by 50% for high-traffic endpoints.
- Implemented enterprise-grade OAuth2.0 and JWT-based security layers across APIs and internal services, ensuring compliance with security standards and reducing breach risks.
- Integrated advanced CI/CD pipelines using GitHub Actions and Jenkins, incorporating Docker containerization and Helm-based Kubernetes deployments for seamless production rollouts.
- Designed robust background job frameworks with Celery and Redis to handle heavy batch-processing workloads, increasing system reliability during peak usage.
- Orchestrated data pipelines that leveraged Pandas and SQL Alchemy to cleanse, normalize, and analyze large datasets stored in PostgreSQL and MongoDB.
- Designed and deployed real-time monitoring dashboards using Plotly Dash, visualizing live API metrics, device health, and service uptime across distributed systems.
- Integrated Plotly visualizations into Django applications using django-plotly-dash, providing dynamic and interactive data insights for operational teams.
- Spearheaded migration of legacy applications to cloud-native architecture on AWS using services such as ECS, Lambda, and SQS, reducing infrastructure costs by 30%.
- Built real-time monitoring and logging tools using ELK stack and Prometheus-Grafana dashboards to proactively detect anomalies and system degradations.
- Championed best practices in code quality through peer reviews, test-driven development (TDD), and maintaining 90%+ unit test coverage across all projects.

Smart IMS, NJ **Software Developer**

Oct 2023 – Nov 2024

- Developed and deployed RESTful APIs to integrate various internal and external systems, ensuring secure and efficient data communication.
- Designed and implemented scalable Python scripts to automate repetitive tasks, improving team efficiency by 30%.
- Collaborated with cross-functional teams to gather requirements, design endpoints, and test APIs, ensuring alignment with business needs.
- Enhanced API performance by optimizing code and implementing caching mechanisms, reducing response times by up to 40%.
- Implemented robust authentication and authorization protocols (OAuth2, JWT) to ensure API security.
- Created detailed API documentation using tools like Swagger, facilitating easier adoption and integration for developers.
- Conducted unit and integration testing for APIs, achieving over 95% code coverage to ensure reliability and robustness.
- Utilized version control systems like Git to manage changes, ensuring a streamlined and collaborative development process.
- Monitored and maintained APIs in production, quickly identifying and resolving issues to minimize downtime.

Tata Consultancy Services, India. **System Engineer**

Feb 2022 - Jul 2022

- Engineered and optimized SQL queries to extract, transform, and load large datasets from PostgreSQL and MongoDB, ensuring data quality and reliability for system reporting and analysis.
- Integrated Python scripts with automation tools to monitor and analyze system performance, improving

troubleshooting efficiency.

- Deployed and managed data warehousing solutions using AWS Redshift, enhancing system query speeds and optimizing storage for datasets exceeding 1 TB.
- Designed and implemented over 50 dashboards using Tableau and MS Excel to provide real-time insights and reports, empowering management to make informed decisions.
- Utilized AWS Athena for executing ad-hoc queries on datasets stored in S3, enabling faster data exploration and analysis without additional ETL processing.
- Led efforts in text mining and data cleaning to improve the quality of operational data, enhancing system performance and output accuracy.
- Collaborated with cross-functional teams to resolve system issues, manage configurations, and document system changes.
- Leveraged Git for version control, ensuring accurate tracking of updates and seamless collaboration on system-related projects

Inspire Business Solutions, India
Python Developer

Jun 2020 – Feb 2022

- Designed and developed scalable Python applications to automate business workflows, reducing manual effort by 25%.
- Built and maintained RESTful APIs to streamline communication between client-facing applications and backend systems.
- Collaborated with cross-functional teams to gather requirements, optimize workflows, and deliver tailored software solutions.
- Wrote efficient Python scripts for data processing, analysis, and visualization, improving decision-making processes for stakeholders.
- Utilized frameworks like Django and Flask to create secure and robust web applications, enhancing user experience and system reliability.
- Implemented data validation and error-handling mechanisms, ensuring system accuracy and reducing downtime by 20%.
- Deployed applications on cloud platforms, leveraging tools like AWS EC2 and S3 for scalability and cost-effectiveness.
- Documented code and processes comprehensively, enabling seamless onboarding for new team members and maintaining project continuity.